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Spin and phonon dynamics in layered cu-based organic-inorganic hybrids

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Document Version

Publisher's PDF, also known as Version of record

Publication date:

2014

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):

Caretta, A. (2014). *Spin and phonon dynamics in layered cu-based organic-inorganic hybrids*. [Thesis fully internal (DIV), University of Groningen]. s.n.

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Propositions

Belonging to the PhD Thesis

“Spin and phonon dynamics in layered
Cu-based organic-inorganic hybrids”

Antonio Caretta

1. Combined use of Raman and IR-spectroscopy can be more powerful than x-ray diffraction. (Chapter 2)
2. In proximity of a phase transition soft modes strongly influence the energy transport properties of the materials. (Chapter 4)
3. In two-dimensional magnets the total magnetization can be enhanced by light-induced changes of the magnetic anisotropy. (Chapter 6)
4. The process of developing an idea has a close analogy to the process of crystallization seeding.
5. It is fear that drives us to separate all physicists in experimentalists and theoreticians, and all politicians in right- and left-oriented.
6. In physical as well as in social systems stable behavior and equilibrium are guaranteed by the coupling to a robust environment, which for a social system is an “external bath” of friendship connections.
7. Spotting the number series 11-13-16, or similar, is strongly indicating the presence of a new group member.
8. The fact that an Italian says “Bau”, an American “Woof”, a Spanish “Guau”, and a Dutch “Waf” sets fundamental barriers to international communication.